

Broadcast-grade video scopes in your browser.

ScopeLab gives you a live vectorscope, waveform, RGB parade, histogram, SMPTE timecode, and audio level meters — all running directly in Chrome, no hardware required.

INSTALLATION

Get started in under a minute

- 1 Download the extension package**
Download the ZIP from GitHub releases or the Chrome Web Store. Unzip to a permanent folder — Chrome loads extensions directly from disk.
- 2 Open Chrome Extensions**
Navigate to `chrome://extensions`, or click the puzzle-piece icon → Manage Extensions.
- 3 Enable Developer Mode**
Toggle Developer mode in the top-right corner of the Extensions page. Required for side-loaded extensions.
- 4 Load Unpacked**
Click Load unpacked and navigate to the `scopelab-extension` folder. Chrome loads it immediately — no restart needed.
- 5 Pin the extension & go**
Click the puzzle icon in Chrome's toolbar and pin ScopeLab so the icon is always visible. Navigate to any video page and click the icon to start.

WORKFLOW

Four clicks to live scopes

- 01 Open any page with video**
YouTube, Vimeo, Frame.io, live streams, or any page with HTML5 video — including videos inside iframes.
- 02 Click the ScopeLab icon**
The popup opens and automatically detects all video elements on the page.
- 03 Choose a selection mode**
Auto Detect, Scan & Select, Crop Region, or Right-Click — pick whichever fits your workflow. See page 2 for details.
- 04 Scope window opens**
A dedicated window opens (ideal for a second monitor). All scopes, timecode, and audio meters update live as your video plays.

SCOPE REFERENCE

What each scope tells you

SCOPE	WHAT IT SHOWS	KEY OVERLAYS
Vectorscope	Chrominance (colour saturation & hue). Pixels cluster toward the colour they represent on the wheel.	75% saturation ring, skin-tone I-line at 123°, gamut-warning % in bias bar
Waveform	Luma intensity from left to right across the frame. IRE scale with broadcast legal lines at 16 and 235.	Amber lines at 16 (black) & 235 (white), zebra stripes toggle, false colour overlay
RGB Parade	Separate Red, Green, Blue waveforms side by side — essential for white balance and colour cast.	Same broadcast legal lines as waveform; trace renders above graticule
Histogram	Pixel count per luminance value. Clipping visible as hard spikes at the left (crush) or right (clip) edge.	Tick marks every 25 IRE, legal range markers, luma + channel split mode

PRO FEATURES

Broadcast tools built in

SMPTE TIMECODE

Live HH:MM:SS:FF display driven by `requestVideoFrameCallback`. Auto-detects 23.976, 24, 25, 29.97 DF/NDF, 30, 50, 59.94, and 60 fps. Click to toggle between SMPTE and media time readouts.

AUDIO LEVEL METERS

VU-style dBFS bars for Source A and Source B. Colour zones: green (safe), amber (-12 to -6 dBFS), red (-6 dBFS and above). 3-pixel peak-hold line. Click the page if "NO SIG" appears — browser autoplay policy requires a user gesture to activate audio.

ZEBRAS & FALSE COLOR

Zebras overlay red diagonal stripes on pixels above 235 (over-exposed) and blue stripes below 16 (crushed). **False Color** maps luma to an 8-zone colour scale (blue → cyan → green → yellow → orange → red) with a legend. Mutually exclusive — enable one at a time via the toggle buttons.

GAMUT WARNING

Counts every pixel outside the 16–235 broadcast-legal range and displays the percentage in the vectorscope's bias bar. A quick glance tells you whether your signal is clean for air.

SOURCE SELECTION

Four ways to set your sources

AUTO DETECT

ScopeLab ranks all videos by rendered size and assigns the two largest as Source A and Source B automatically.

SCAN & SELECT

Coloured overlays appear on every video. Click one for Source A, another for Source B. Shows resolution per element.

CROP REGION

Drag a box over any area of the page — inside a letterboxed player, a UI element, anywhere. Only pixels inside the box are analysed.

RIGHT-CLICK

Right-click any video element and choose *Set as Source A* or *Set as Source B* directly from the context menu.

PRO TIPS

Get more from ScopeLab

- **Drag the panel dividers** to resize any of the four quadrants. Your layout is saved automatically and restored next time you open the scope window.
- **Audio context requires a user gesture.** If the meters show "NO SIG", click anywhere on the video page. Chrome's autoplay policy suspends audio until the user interacts.
- **Click the timecode display** to toggle between SMPTE drop-frame format (HH:MM:SS;FF) and raw media time in seconds.
- **Use Crop Region on letterboxed content** to exclude black bars from your scope readings — especially important for accurate luma waveform and histogram analysis.
- **The skin-tone I-line** on the vectorscope runs at 123° and represents the expected hue angle for all human skin tones regardless of brightness. If faces cluster on this line, your white balance is correct.
- **Frame.io & Vimeo review links** work natively — open the review page, hit Auto Detect, and your scope window is ready. No download needed.